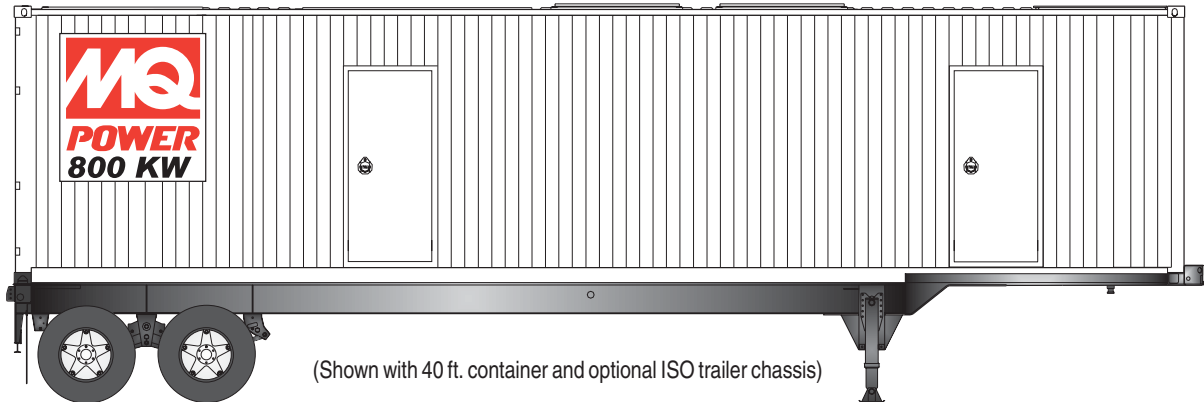




800kW Containerized Diesel Generator Set

Model	Emissions	Standby Rating	Prime Rating
EGC-800C	EPA Certified	60 Hertz	
		800kW (1000kVA)	725kW (913kVA)



Standard Features

Cummins Heavy Duty Diesel Engine

- 4-cycle design, turbocharged, aftercooled, direct injection
- Polymide blade cooling fan
- Engine coolant heater
- Meets Tier 2 EPA emissions standards

Fuel System

- 1000 gallon, single wall fuel tank
- Fuel priming system
- Fuel/water separators and drip pan
- Electric fuel run pump
- External fuel fill
- 30 micron Racor[®] fuel/water separator filter

Alternator

- Brushless, 4-pole, synchronous, broad range WYE connection
- Class H insulation system conforms to NEMA MG1-22, BS5000, CSA-C22-2, IEC-34-1 standards for temperature rise
- Drip-proof, self-venting, amortisseur windings

Electronic Voltage Regulator

- Electronic automatic voltage regulator provides precise regulation
- Separate three-phase excitation for fast recovery from block loads and motor starting

Full Load Acceptance

- Accepts 100% of standby nameplate rating in one step, in compliance with NFPA, para 5-13.2.6

Generator Control Panel

- Basler vibration-isolated controller
- Manual or remote engine start/stop
- RS485/Modbus communication support
- Safety shutdowns
- Externally mounted emergency stop switch
- Generator mainline circuit breaker, 100% rated electronically operated, UL listed

Specially Designed Container

- 40 ft. ISO container, sound-attenuated, foam-lined for extremely quiet operation
- Isolated operator control room
- Solidly mounted battery rack and cooling system
- Integral vibration isolators
- Exterior polyurethane coating system provides long life in extreme operating conditions
- Interior DC lights and timer switch
- Crankcase filtration system
- Critical grade silencer with heat blankets

Warranty

- Engine-generator sets are covered by an express written, one-year limited warranty



800kW Containerized Diesel Generator Set

APPLICATION DATA

Alternator Specifications

Make	Marathon Magna Max
Type	4-Pole, Rotating Field
Number of Leads	10 or 12
Generator Type	Rotating Field; PMG
Voltage Regulator	Solid State, Digital, Model DVR2000
Insulation	NEMA MG1-1.66
Material	Class H
Temperature Rise	105° / 125° C
Bearing: Number, Type	Single, Sealed
Coupling	Flexible Disk
Amortisseur Windings	Full
Excitation	Voltage Regulated, Brushless
Voltage Regulation (no load to full load)	0.25%
One Step Load Acceptance % of rating per NFPA-110	100
Generator Efficiency at Full Load	95%
Phase Sequence	ABC (L1, L2, L3)
L-L Harmonic Max Total	5.0%
L-L Harmonic Max Single	3.0%

The EGC800C Sound Attenuated Generator is configured for standard 60 Hz, 208V or 480V output. Special voltage outputs are available (special order).

Alternator Features

- All ratings tested per MIL-STD-705 as applicable.
- Generator protection for overload and short circuit.
- Generator is designed and built within NEMA, IEEE and ANSI standards for temperature rise.
- PMG exciter for superior regulation and response.
- Three phase sensing on regulator.
- Skewed rotor for smooth voltage wave form..
- Optional - Vacuum impregnated epoxy varnish, fungus resistant per MIL-I-24092.

Engine Specifications

Manufacturer/Model	Cummins / QSK23-G7 NR2
Engine Type	4-cycle, Turbocharged, Air to Air Aftercooled
Cylinder Arrangement	6 In-line
Displacement	1413 in ³ (23.15 L)
Bore	6.69 in. (170 mm)
Stroke	6.69 in. (170 mm)
Compression Ratio	16 : 1
Piston Speed (60Hz)	2010 ft./min (10.3 m/sec)
Bearing Main: Type	Replaceable, Precision
Cylinder Block	Cast iron with wet, replaceable cylinder liners
Cylinder Head Material	Cast iron
Crankshaft Material	Forged steel
Brake Mean Effective Pressure (BMEP)	Standby: 380 psi (2620 kPa) Prime: 341 psi (2350 kPa)
Rated RPM (60 Hz)	1800 RPM
Gross Engine Power Output	Standby: 1220 hp (910 kW) Prime: 1085 hp (809 kW)
Governor: Type	Electronic
Frequency Regulation: Steady State	± 0.25%
Air Cleaner Type - All Models	Dry, Dual Element

Amperage

Voltage	Phase	Power Factor	Continuous Amperes	
			Standby	Prime
120/208 Volt	3	0.8	2779	2535
277/480 Volt	3	0.8	1204	1099

Engine Electrical System

Battery Charging Alternator Ground Type	Negative
Volts	24 VDC
Ampere Rating	35A
Starter Motor Rated Voltage	24 VDC
Minimum Recommended Battery for 0°C / Cold Cranking Performance	1800 CCA

Lubrication System

Type	Full Pressure System
Oil Filters	4 Spin-on, Full Flow
Oil Pressure at Rated Speed	21 psi (145 kPa)
Oil Capacity with Filters	27 gal. (103 L)



800kW Containerized Diesel Generator Set

Cooling System

Exhaust Manifold Type	Dry
Radiator Design	Parallel Core, side by side
Coolant Capacity - Engine only	12.3 gal. (46.5 L)
Water Pump Design/Type	Belt Driven, Centrifugal
Coolant Flow	160 gal/min (605.5 L)
Heat Rejection to Coolant (Standby)	15845 Btu/min (280 kW)
Minimum Pressure Cap	10 psi (70 kPa)

Fuel System

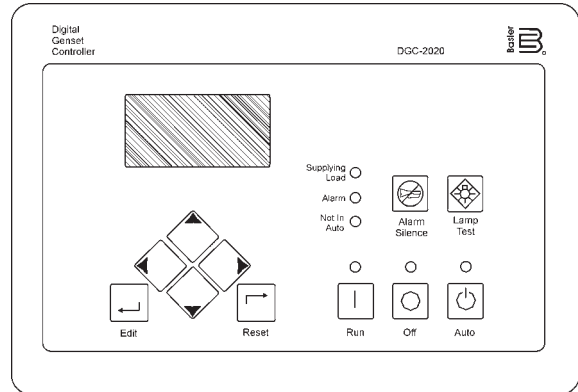
Recommended Fuel	ASTM-D975-No.1 or No. 2-D
Filter Micron Size - 98% Efficiency	2
Maximum Fuel Flow	181 gal/hr (684 L/hr)
Fuel Consumption (Prime Rating)	
Diesel Fuel @ % of Load	gal/hr (L/hr)
25%	15 (57)
50%	27 (102)
75%	38 (143)
100%	49 (185)

Exhaust System

Exhaust Temperature at Rated kW	Standby: 925°F (500°C) Prime: 870°F (465°C)
Exhaust Flow at Rated kW	Standby: 5600 cfm (158.5 m³/min) Prime: 5220 cfm (147.9 m³/min)
Silencer Type	Critical
Maximum Allowable Backpressure	41 in/wc (10.2 kPa)
Exhaust Outlet Size at hook-up	2 x 8 in.

Derating

The engine may be operated up to 5000 ft. altitude and 95°F ambient temperature at the Standby rating, without derating. For operation at higher altitudes and ambient temperatures, the power should be derated according to the following factors:	Altitude	Ambient Temperature
	> 5000 ft. = 4.5% per 1000 ft. (300m)	> 95°F = 20.9% per 10°F



DGC-2020 Digital Genset Controller

Digital Controller Features

- Local and Remote Generator Control
- Automatic and manual starting and stopping
- Engine and Generator Protection
- Programmable Analog Engine Senders
- ECU Communications via SAE J1939
- 16 Programmable Contact Inputs
- Programmable Logic
- Automatic Transfer Switch Control (Mains Failure)
- Integrated RS485
- Auto Synchronizing
- Event recording

Monitoring

- Engine RPM
- Engine run time
- Generator voltage
- Generator current
- Generator frequency
- Oil pressure
- Battery voltage
- Fuel level measurements
- Running Hour Meter
- Coolant temperature
- Generator under/over voltage alarm/shutdown
- Generator under/over frequency alarm/shutdown
- Over Current alarm/shutdown
- Warm up and cooling functions
- Maintenance timer



800kW Containerized Diesel Generator Set

Optional Features and Accessories

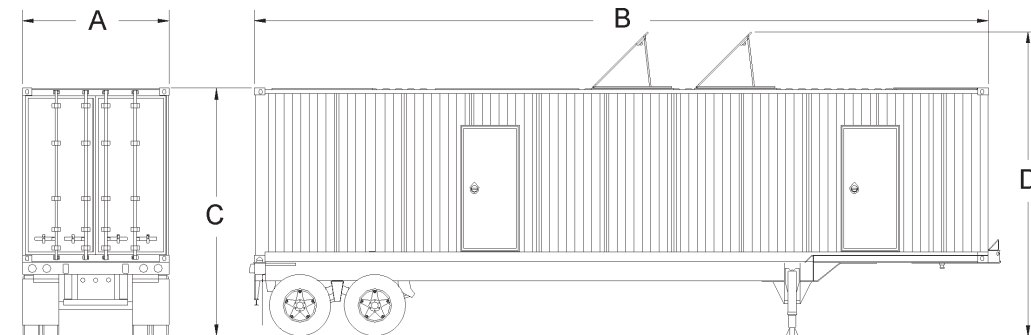
Generator Set

- Genset-to-Genset Paralleling Control System
- Base Load-to-Utility and Peak Shaving Paralleling Control System
- Custom Outlet Panels
- Rotary Voltage Selector Switch (High Wye/Low Wye Voltages)
- Auxiliary Oil Reservoir with Level Control (15-gallon)
- Centrifugal Oil Filter System
- Oil Pan Heater with Thermostat
- Alternator Strip Heater
- AC Battery Charger with Shore Power Receptacle

Container

- ISO Trailer Chassis (40 ft.)
- Double-wall Fuel Tank (900-gallon capacity)
- Fluid Containment
- Manual Fuel Valves (For Internal or External Fuel Supply)
- Personnel Ladder (Aluminum Step Construction with Hand Rails)
- Fueling Ladder (Aluminum Step Construction with Hand Rail)
- Interior Lights (AC Work lights)
- Custom Paint Colors (Artic White is Standard)
- Utility Grade Protective Relay

SPECIAL OPTIONS AVAILABLE UPON REQUEST



40 ft Container

Weight and Dimensions			
A	B	C	D
96 in. (2,438 mm)	480 in. (12,192 mm)	163 in. (4,137 mm)	199 in. (5,054 mm)
Weight (Wet)*		37,760 lbs (17,128 kg)	
Weight (Wet with trailer)*		44,500 lbs (20,185 kg)	

* Weight is approximate. Wet weight does not include fuel.

Backfeed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device. Specifications are subject to change without notice.

Your MQ Power dealer is:



MQ POWER
 POST OFFICE BOX 6254
 CARSON, CA 90749
 310-537-3700 • 800-421-1244
 FAX: 310-632-2656
 E-MAIL: mqpower@multiquip.com
 WEBSITE: www.mqpower.com